FIG.1

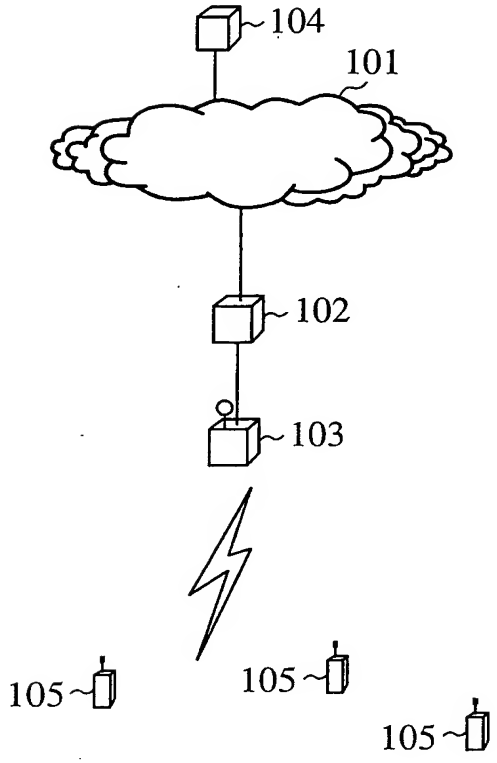

104
101
102
103
105
105
105

FIG.2

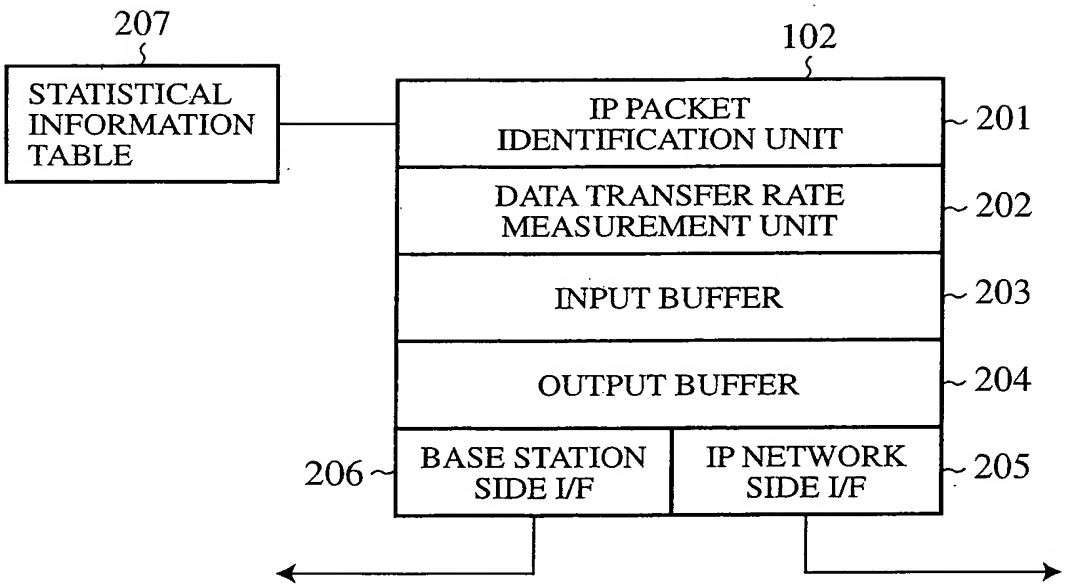
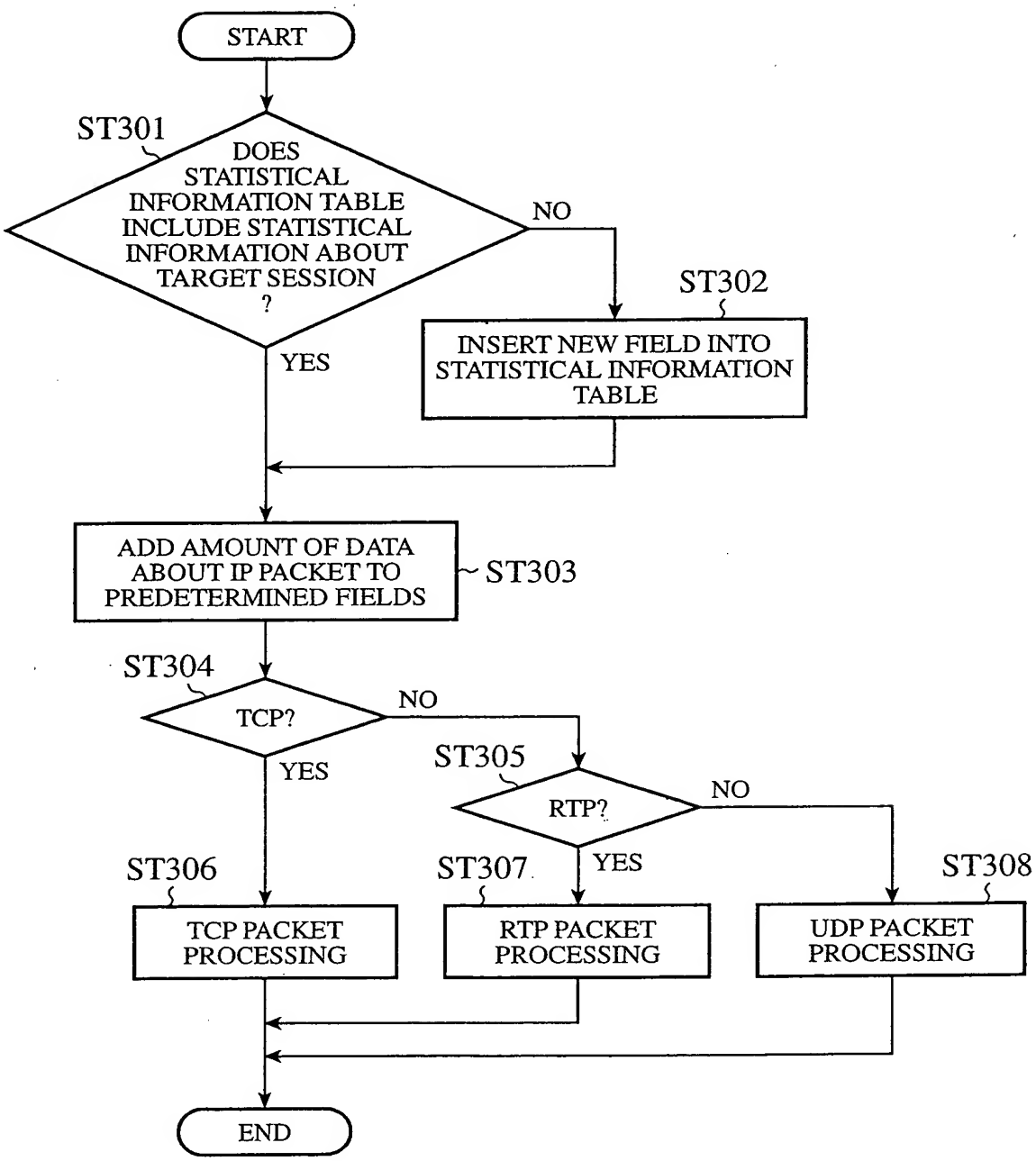

207
STATISTICAL INFORMATION TABLE
102
IP PACKET IDENTIFICATION UNIT
201
DATA TRANSFER RATE MEASUREMENT UNIT
202
INPUT BUFFER
203
OUTPUT BUFFER
204
206
BASE STATION SIDE I/F
IP NETWORK SIDE I/F
205

FIG.3


START
ST301
DOES STATISTICAL INFORMATION TABLE INCLUDE STATISTICAL INFORMATION ABOUT TARGET SESSION ?
NO
YES
ST302
INSERT NEW FIELD INTO STATISTICAL INFORMATION TABLE
ADD AMOUNT OF DATA ABOUT IP PACKET TO PREDETERMINED FIELDS
ST303
ST304
TCP?
NO
YES
ST305
RTP?
NO
YES
ST306
TCP PACKET PROCESSING
ST307
RTP PACKET PROCESSING
ST308
UDP PACKET PROCESSING
END

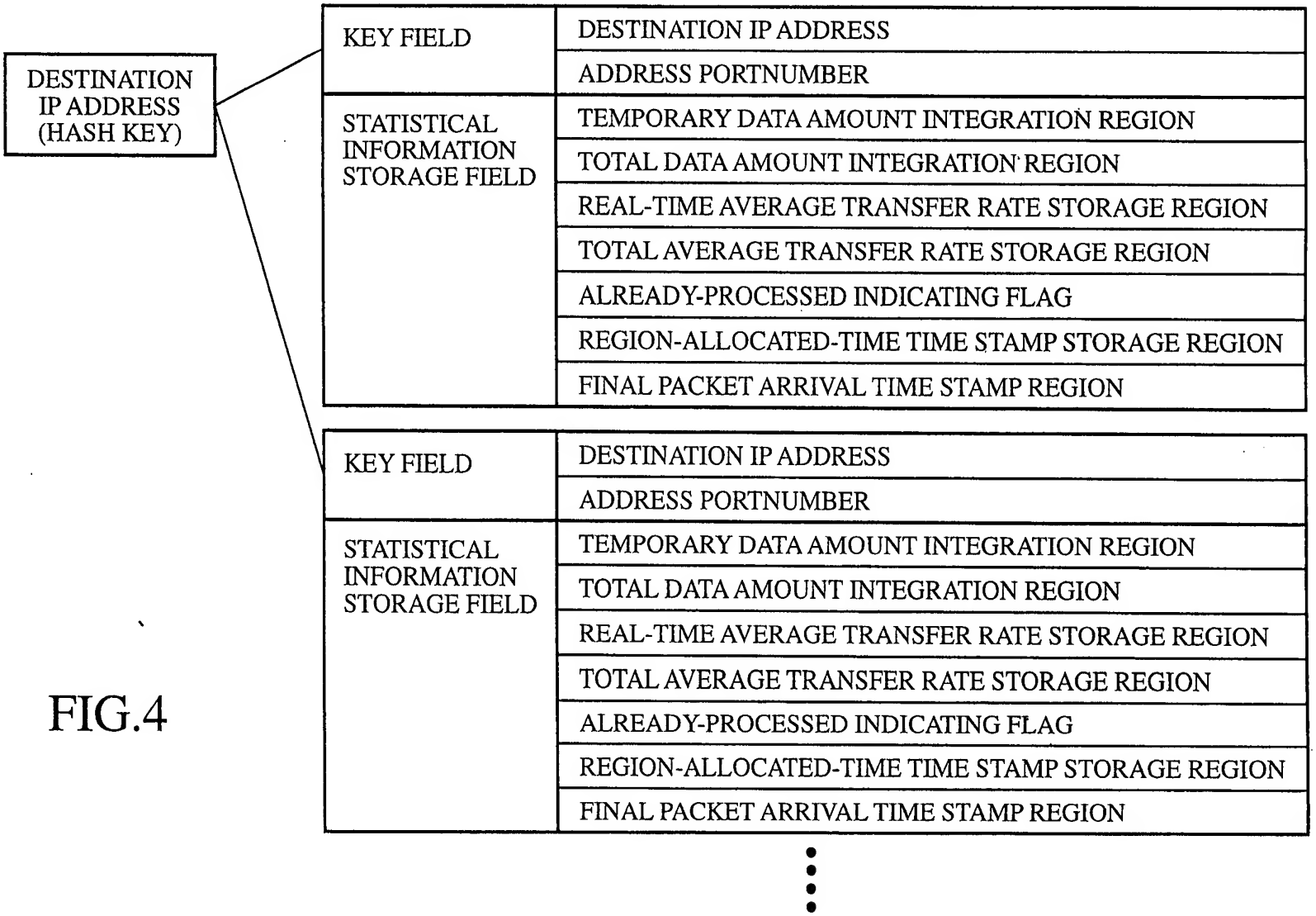

DESTINATION IP ADDRESS (HASH KEY)
KEY FIELD
DESTINATION IP ADDRESS
ADDRESS PORTNUMBER
STATISTICAL INFORMATION STORAGE FIELD
TEMPORARY DATA AMOUNT INTEGRATION REGION
TOTAL DATA AMOUNT INTEGRATION REGION
REAL-TIME AVERAGE TRANSFER RATE STORAGE REGION
TOTAL AVERAGE TRANSFER RATE STORAGE REGION
ALREADY-PROCESSED INDICATING FLAG
REGION-ALLOCATED-TIME TIME STAMP STORAGE REGION
FINAL PACKET ARRIVAL TIME STAMP REGION
KEY FIELD
DESTINATION IP ADDRESS
ADDRESS PORTNUMBER
STATISTICAL INFORMATION STORAGE FIELD
TEMPORARY DATA AMOUNT INTEGRATION REGION
TOTAL DATA AMOUNT INTEGRATION REGION
REAL-TIME AVERAGE TRANSFER RATE STORAGE REGION
TOTAL AVERAGE TRANSFER RATE STORAGE REGION
ALREADY-PROCESSED INDICATING FLAG
REGION-ALLOCATED-TIME TIME STAMP STORAGE REGION
FINAL PACKET ARRIVAL TIME STAMP REGION

FIG.4

FIG.5

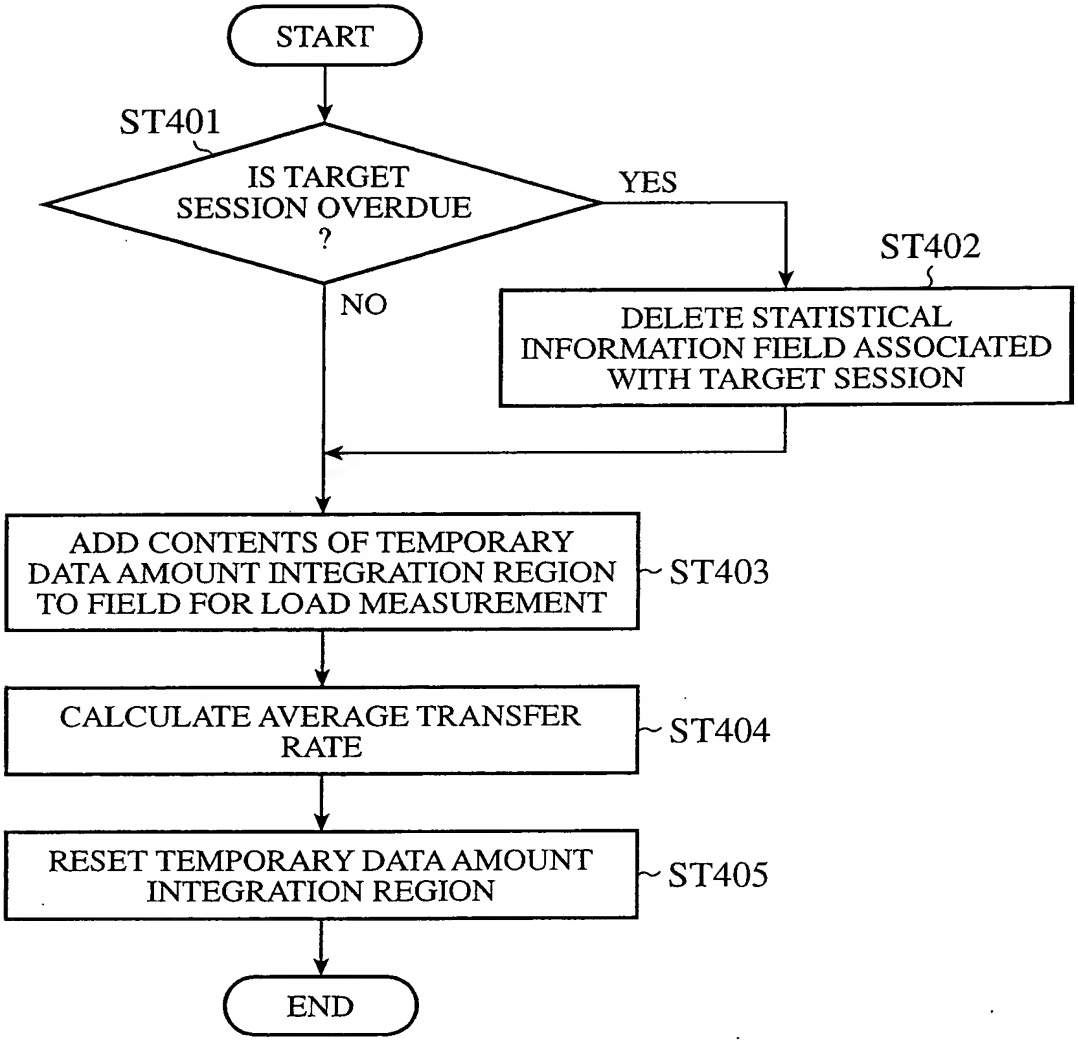

START
ST401
IS TARGET SESSION OVERDUE ?
YES
NO
ST402
DELETE STATISTICAL INFORMATION FIELD ASSOCIATED WITH TARGET SESSION
ADD CONTENTS OF TEMPORARY DATA AMOUNT INTEGRATION REGION TO FIELD FOR LOAD MEASUREMENT
ST403
CALCULATE AVERAGE TRANSFER RATE
ST404
RESET TEMPORARY DATA AMOUNT INTEGRATION REGION
ST405
END

FIG.6

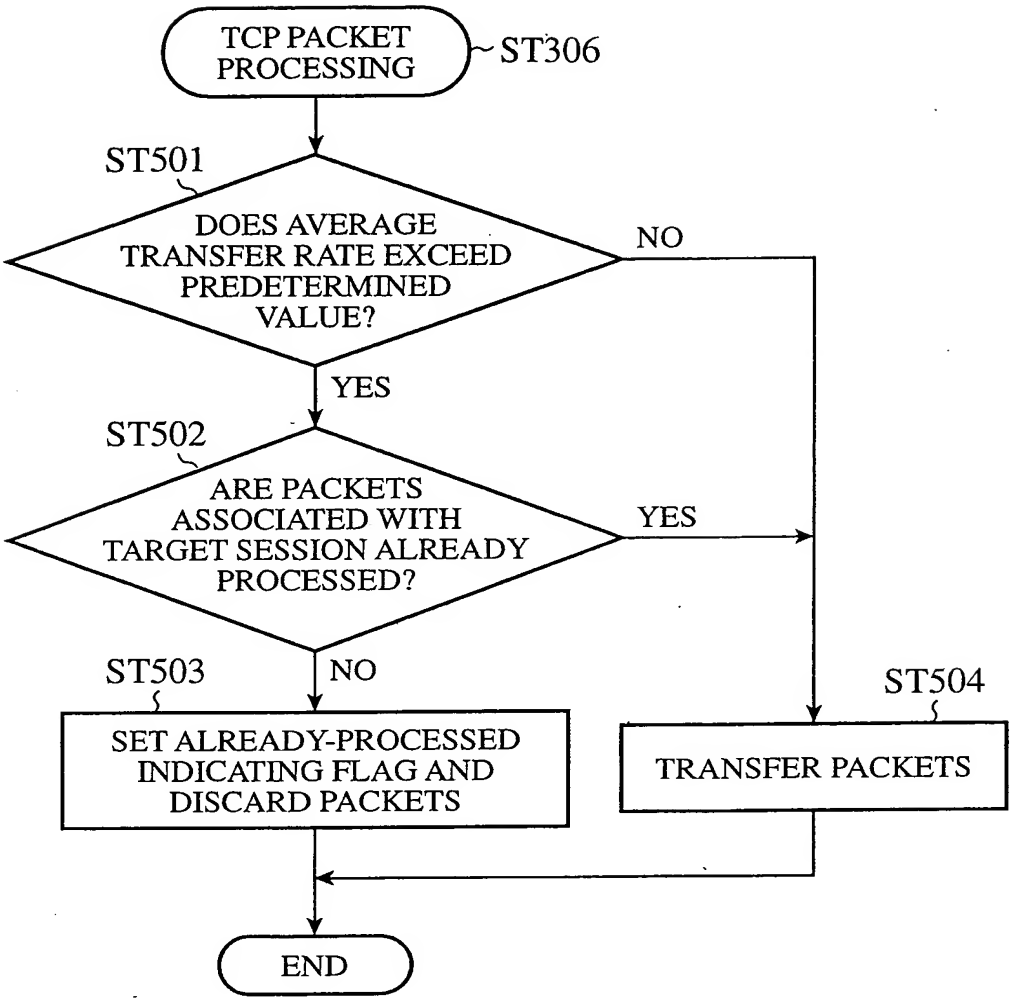

TCP PACKET PROCESSING
ST306
ST501
DOES AVERAGE TRANSFER RATE EXCEED PREDETERMINED VALUE?
NO
YES
ST502
ARE PACKETS ASSOCIATED WITH TARGET SESSION ALREADY PROCESSED?
YES
NO
ST503
SET ALREADY-PROCESSED INDICATING FLAG AND DISCARD PACKETS
ST504
TRANSFER PACKETS
END

FIG.7

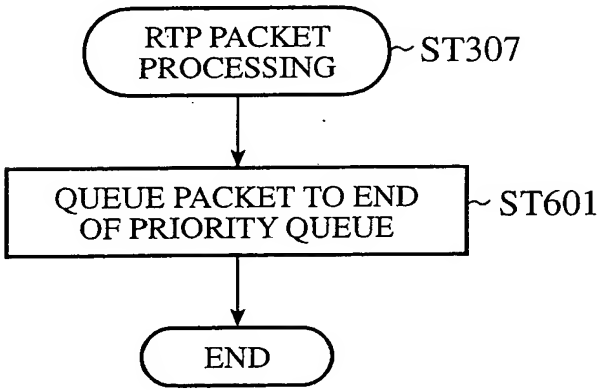

RTP PACKET PROCESSING
ST307
QUEUE PACKET TO END OF PRIORITY QUEUE
ST601
END

FIG.8

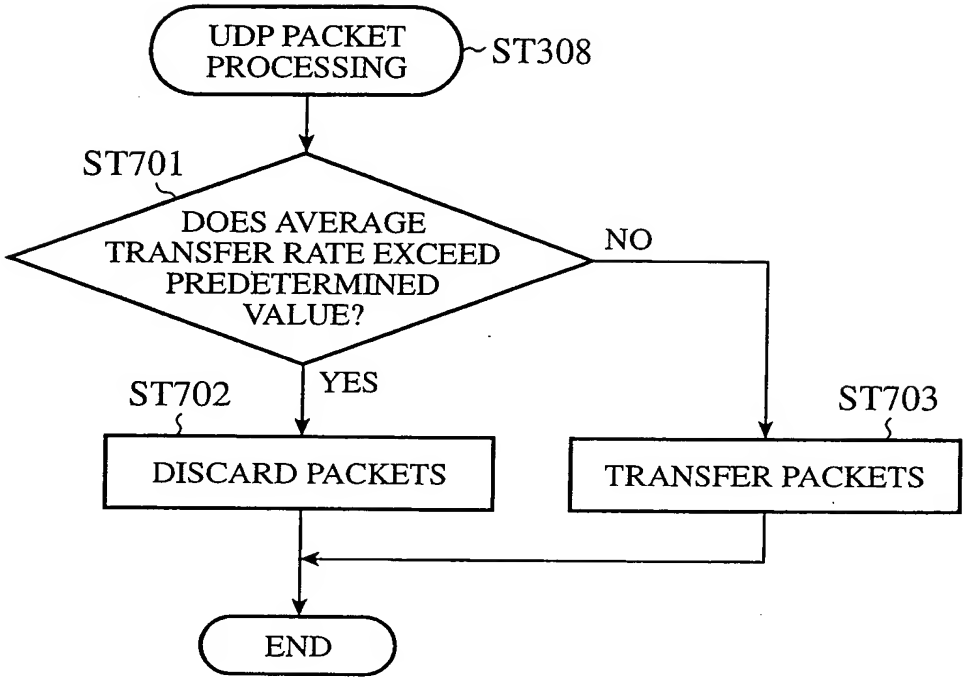
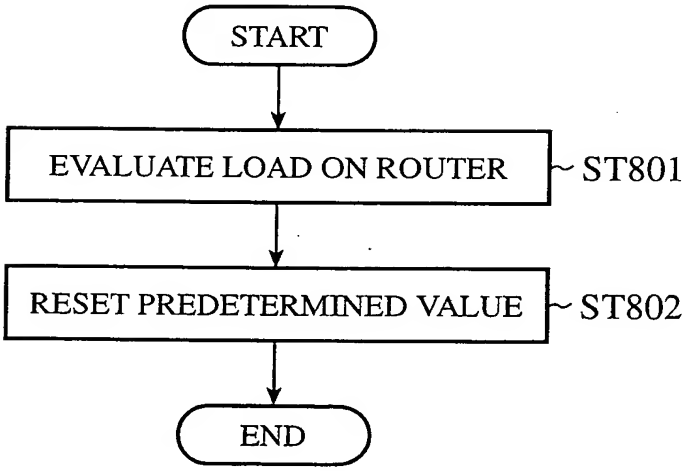

UDP PACKET PROCESSING
ST308
ST701
DOES AVERAGE TRANSFER RATE EXCEED PREDETERMINED VALUE?
NO
YES
ST702
DISCARD PACKETS
ST703
TRANSFER PACKETS
END

FIG.9


START
EVALUATE LOAD ON ROUTER
ST801
RESET PREDETERMINED VALUE
ST802
END